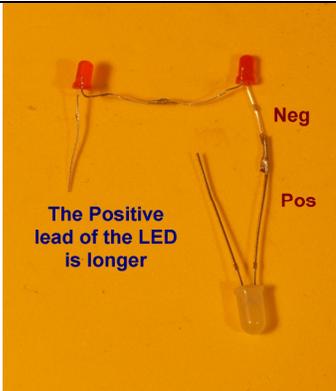
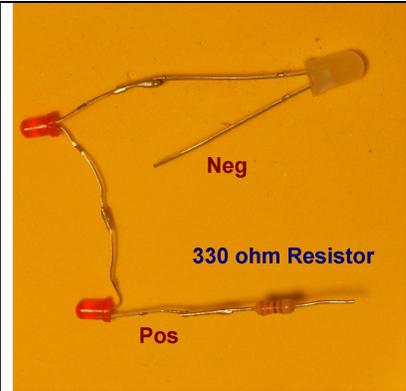




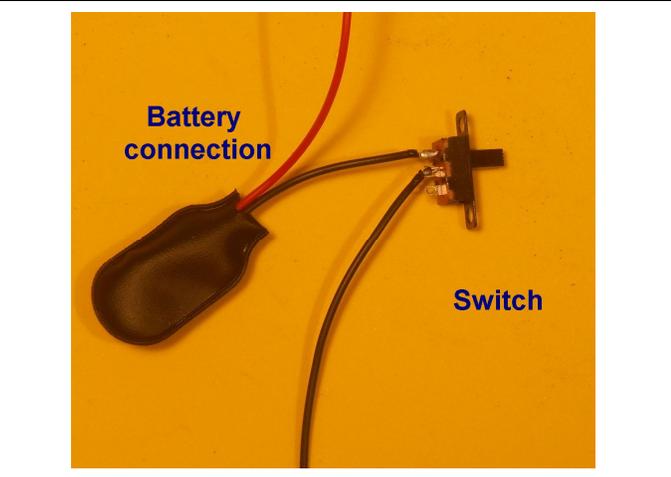
Solder the Negative lead of one red LED to the Positive lead of the other around 1 1/4" apart



Solder the Negative lead of the red to the Positive of the White (longer) lead.



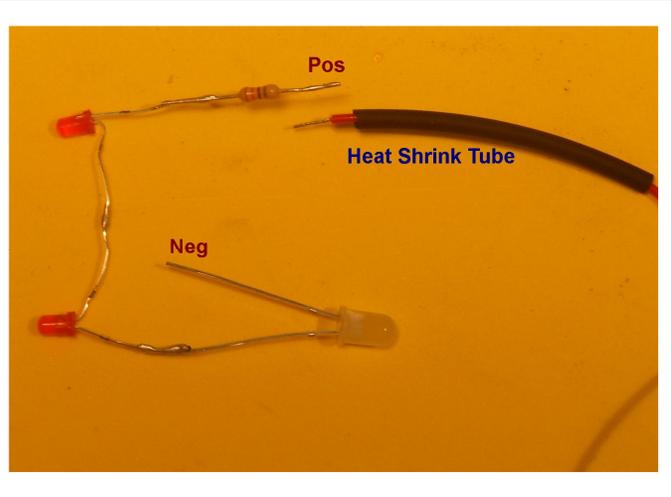
Shorten and solder the 330 ohm resistor to the Positive lead of the red LED.



Cut black wire of the battery connector at 1 inch and solder wire to the end pin of the slide switch. Solder the other free end to the middle pin.



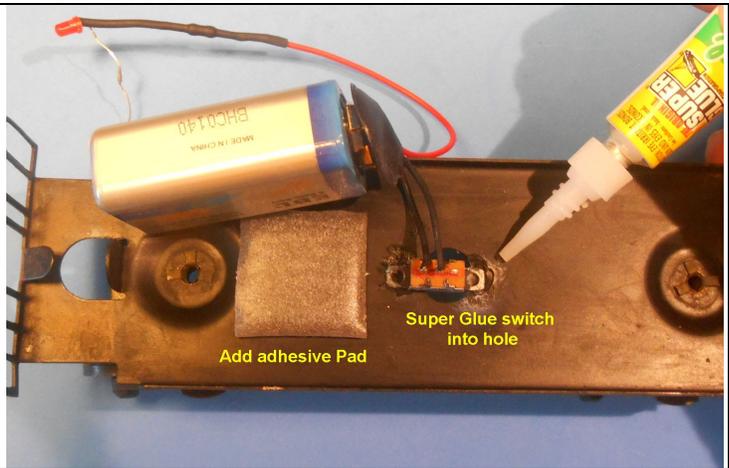
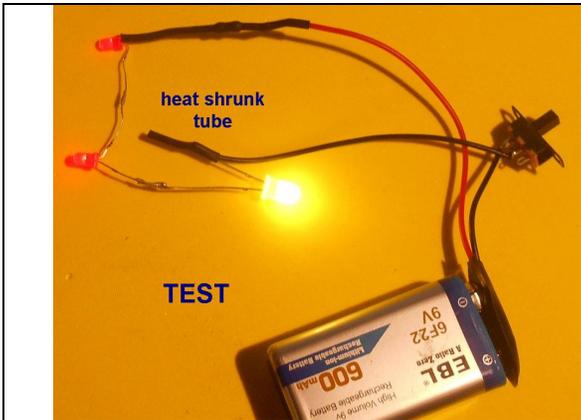
Temporarily assemble the battery, switch, connector and light circuit to determine the spot for cutting the red and black wires.



Slip 1 1/2" heat shrink tube over the red wire and solder the end to the resistor. Then move the heat shrink tube over the resistor and connections and heat with a heat gun or hair dryer set on high heat.

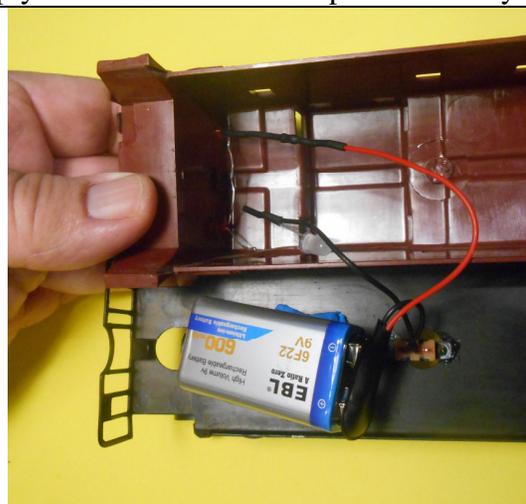
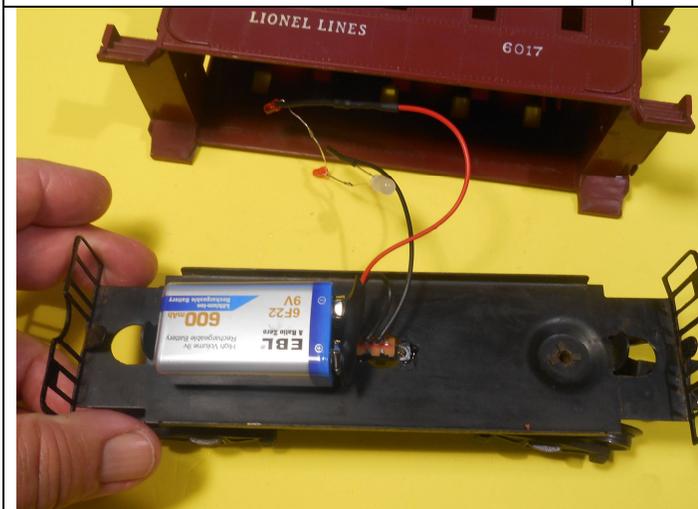


Strip, tin and solder the black wire to the Negative lead of White LED. Cover this joint with 1/2" of shrink tube and heat as shown in next photo.



Test the circuit to see that all lights work and that the switch turns the lights on and off . .

Super Glue slide switch onto the floor of the caboose with the slide protruding through the central hole in the floor. Apply the double sided stick pad for battery.



Firmly seat the battery onto the adhesive pad toward the back of the caboose floor next to the switch pins.

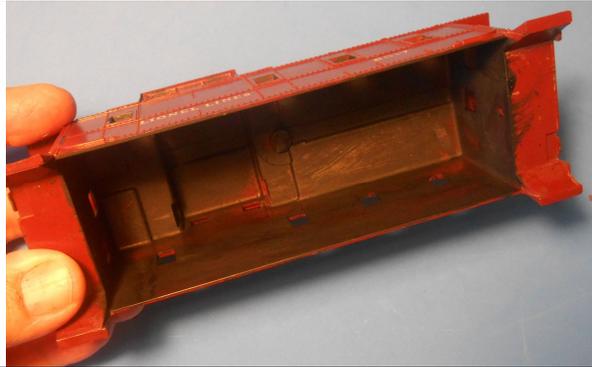
Push the Red LEDs into the socket holes in the rear wall. Reposition the White LED toward the center and reattach the cabin.



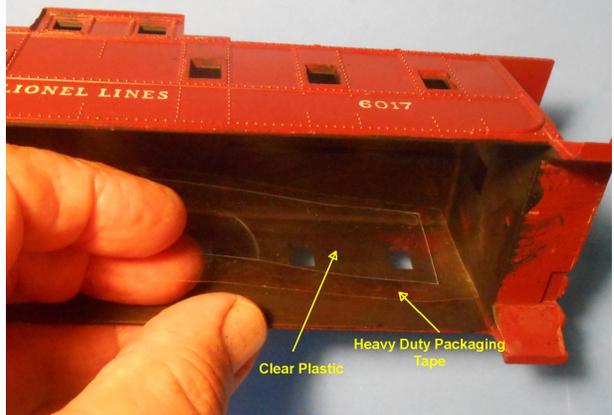
Completed Caboose ready for the track

Tips on Improving Your Lighted Caboose

1. Blacken the interior: Use a light coat of black paint or primer to darken the interior cabin so that the plastic color does not show through.



2. Add Windows: The simplest way to add windows is to use some clear plastic styrene, used as packing material, cut slightly larger than the window or windows to be covered. Next cut some heavy duty clear shipping tape cut larger than plastic. Stick the adhesive tape over the plastic leaving a perimeter of adhesive to attach to the inside wall of the car around the window.



3. Reflect the light from the roof. Cut out a piece of heavy duty aluminum foil the size of the interior roof area and stick it to the roof with CA glue with the shiny side facing down. This will reflect light from the soft white LED back into the cabin.



O Scale Lionel Caboose Light Kit

- * 3 LEDs : 2 Red, 1 Soft White
- * Battery connector & wires
- * Slide Switch
- * 300 ohm resistor
- * Heat shrink tubing
- * Dual stick adhesive

available with or without assembly at
www.modeltrainsounds.com

